

IN THE CLAIMS

This listing of claims replaces all prior versions and listings of the claims in the above-referenced application.

1-10. (Canceled).

11. (Previously Presented) A light-emitting semiconductor device comprising:
a semiconductor structure having at least one p-type and one n-type layer; and
a p contact and an n contact, the p contact electrically connected to the p-type layer, the n contact electrically connected to the n-type layer, wherein at least one of the p and n contacts is a multi-layer contact external to the semiconductor structure, the multi-layer contact comprising:

a metallic reflector layer comprising Ag; and

a continuous uniform conducting sheet adjacent to the semiconductor structure,

wherein the continuous uniform conducting sheet comprises Ni and makes ohmic contact to the structure;

wherein the multi-layer contact has a reflectivity greater than 75% for light at an operating wavelength of the light-emitting device and a specific contact resistance less than $10^{-2} \Omega\text{-cm}^2$.

12-13. (Canceled).

14. (Previously Presented) A device, as defined in claim 11, the multi-layer contact further comprising a barrier layer interposing the reflector layer and the continuous uniform conducting sheet.

15. (Original) A device, as defined in claim 11, the reflector layer having a thickness greater than 500 Å.

16. (Previously Presented) A device, as defined in claim 11, wherein the continuous uniform conducting sheet has a thickness less than 200 Å.

PATENT LAW
GROUP LLP
2035 N. FIRST ST.
SUITE 223
SAN JOSE, CA 95134
(408) 382-0480
FAX (408) 382-0481

17. (Canceled).

18. (Previously Presented) A device, as defined in claim 11, wherein the continuous uniform conducting sheet is selected from the group that consists of Au/NiO and Ni/Au.

19. (Canceled).

20. (Previously Presented) A device, as defined in claim 11, wherein the semiconductor structure includes at least one III-nitride layer.

21-27. (Canceled).

28. (Previously Presented) A device, as defined in claim 11, wherein the continuous uniform conducting sheet absorbs less than 25% of light generated in the semiconductor structure and incident on the continuous uniform conducting sheet.

29. (Previously Presented) A device, as defined in claim 20, wherein a voltage required to forward bias the device is less than 3.5 V.

30. (Previously Presented) A device, as defined in claim 11, wherein the continuous uniform conducting sheet has thickness less than 100 Å.

31. (Previously Presented) A light-emitting semiconductor device comprising:
a semiconductor structure having at least one p-type and one n-type layer; and
a p contact and an n contact, the p contact electrically connected to the p-type layer, the n contact electrically connected to the n-type layer, wherein at least one of the p and n contacts is a multi-layer contact external to the semiconductor structure, the multi-layer contact comprising:

a metallic reflector comprising Al; and

a continuous uniform conducting sheet adjacent to the semiconductor structure, wherein the continuous uniform conducting sheet comprises Ni and makes ohmic contact to the structure;

PATENT LAW
GROUP LLP
2635 N. FIRST ST.
SUITE 220
SAN JOSE, CA 95134
(408) 382-0480
FAX (408) 382-0481

wherein the multi-layer contact has a reflectivity greater than 75% for light at an operating wavelength of the light-emitting device and a specific contact resistance less than $10^{-2} \Omega\text{-cm}^2$.

32-34. (Canceled).

35. (Previously Presented) A device, as defined in claim 31, wherein:
the continuous uniform conducting sheet comprises Au.

PATENT LAW
GROUP LLP
2635 N. FIRST ST.
SUITE 225
SAN JOSE, CA 95134
(408) 382-0481
FAX (408) 382-0481